C-A OPERATIONS PROCEDURES MANUAL

5.2 LINAC Turn On for BLIP

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5.2 LINAC Turn On For BLIP

1. Purpose

To provide instructions for MCR operators regarding turn on of linac systems in preparation for operation of BLIP.

2. Responsibilities

MCR operators initiate the turn on of the linac by requesting the turn on of subsystems. The systems experts on the linac staff turn on the subsystems. The Linac Operations Coordinator should be consulted concerning linac turn on.

3. Prerequisites

3.1 Qualified and trained MCR operator.

3.2 HEBT beam stops closed.

4. Precautions

The systems experts are responsible for the safe turn on of their subsystems. Health Physics must have cleared the linac tunnel for rf, and the Tank 1 and Tank 9 gates must be closed prior to feeding rf into the accelerating cavities. The linac tunnel, HEBT, and BLIP must be secured prior to accelerating beam in the linac. A double-redundant radiation safety security system assures that the above conditions are fulfilled.

5. Procedure

5.1 MCR must inform the Linac Operations Coordinator of the date on which they desire beam from the linac to be delivered to BLIP. If the linac is fully shut down, it may take one week or more for the linac to be turned on. If the linac is already running for the AGS, BLIP turn on should typically take less than eight hours. To make the turn on as smooth as possible, the Linac Operations Coordinator should be kept informed regarding any tentative BLIP schedule.

5.2 Once a date is known for the when the linac should be able to deliver beam to BLIP, the Linac Operations Coordinator will coordinate the turn on of the subsystems (ion source, rf, quadrupoles, etc.) to meet that date.

5.3 The Linac Operations Coordinator will also inform the MCR operator if a problem has been encountered during turn on which could lead to a delay in the schedule.

5.4 The linac equipment is turned on by the systems experts on the linac staff. In the process of bringing on and checking out the equipment, beam will normally be accelerated in the linac and transported to the BLIP target. Therefore, initial tuning of the BLIP beam is done by the linac staff. Once a satisfactory beam has been delivered to BLIP, MCR will be informed that the linac turn on for BLIP is complete.

6. Documentation

Completion of linac turn on for BLIP will be recorded in the MCR logbook and Linac Operations logbook.

7. References

None

8. Attachments

None